

# FINAL CLEANUP REPORT FOR UST CLOSURE



VIHUITE Shueild, INC.

Engineening



Swrveying



Environmental



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# FINAL CLEANUP REPORT FOR UST CLOSURE

## Site Location:

5661 Branch Road Wapato, WA

WSI Job No. 101-034-01

## Prepared For:

Mr. Greg Keys Pace International 5661 Branch Road Wapato, WA 98951

## Prepared By:



White Shield Inc. 2515 W. Falls Avenue Kennewick, WA 99336 (509) 734-0789

**February 8, 2002** 



# WHITE SHIELD, INC.

February 8, 2002

Mr. Greg Keyes Pace International 5661 Branch Road Wapato, WA 98951

RE: Final Cleanup Report for UST Closure

**Pace International** 

5661 Branch Road; Wapato, Washington

Dear Mr. Keyes:

White Shield, Inc. (WSI) conducted soil sampling activities at the above referenced site on January 8, 2002. The site is identified as Yakima County Parcel 191130-33003 as shown on the Yakima County GIS Web Mapping document, which is presented as Figure 1- Site Location Map. This letter report discusses the past and current site status, and soil sampling activities and analysis.

#### **Prior Site Status**

During the decommissioning and removal of one diesel underground storage tank (UST) and one bunker C or #6 fuel UST in June 1991, petroleum hydrocarbon contaminated soil (PCS) was encountered. Refer to the White Shield Site Assessment Report for Underground Storage Tank Closure at Sanofi Bio-Industries Wapato, WA dated June, 1991. The PCS was excavated and moved to a location located north of the enclosure fence, where the soil was spread on the ground at a depth of 6 inches to 12 inches for the purpose of soil remediation and monitoring.

WSI requested Materials Testing & Consulting, Inc (MTC) Analytical/Environmental Services to analyze each sample submitted for diesel and heavy oils using methods EPA 418.1 and 8015.

#### **Current Site Status**

WSI examined current site maps and aerial photos. Appendix 1 presents a 1992 aerial photograph provided by Yakima County GIS Department. WSI determined that the PCS had been spread over an area approximately 175 feet x 150 feet at a depth of 6 inches to 12 inches. The documents reviewed indicated that the remediation area is located approximately 725 feet north of Branch Road and 900 feet east of Lateral B Road. A visual observation of area revealed evidence that soil had been spread over the ground and that it had been cultivated at least once during the period from 1991 to the present.

**Engineering** 

Surveying

**Environmental** 

 $\blacktriangle$ 

Planning

On January 8, 2002, WSI designed a sampling grid consisting of eight contiguous blocks measuring approximately 44 feet by 75 feet. Refer to Figure 2 - Sampling Plan. WSI collected a composite soil sample at a depth of 12 inches below ground surface (bgs) from 5 randomly selected locations within each block (Samples 101-034-01 thru 101-034-08). In addition, soil sample 101-034-09 was collected from a control block located outside of the designated sampling grid.

The samples were submitted to OnSite Environmental Inc Analytical Laboratory for analysis for diesel and heavy oils using method NWTPH-Dx. Appendix 2 presents the laboratory results from OnSite Laboratory. The results are summarized in Table 1 below.

**Table 1 Soil Analytical Results** 

Sample Number	Sample Date	Depth (in)	Diesel (ppm)	Heavy Oil (ppm)	Location	Туре
101-034-01	1/8/02	12	ND	120	Block 1	Composite
101-034-02	1/8/02	12	ND	60	Block 2	Composite
101-034-03	1/8/02	12	ND	ND	Block 3	Composite
101-034-04	1/8/02	12	ND	ND	Block 4	Composite
101-034-05	1/8/02	12	ND	590	Block 5	Composite
101-034-06	1/8/02	12	ND	610	Block 6	Composite
101-034-07	1/8/02	12	ND	ND	Block 7	Composite
101-034-08	1/8/02	12	ND	ND	Block 8	Composite
101-034-09	1/8/02	12	ND	ND	Control	Composite
101-034-10	1/22/02	30	ND	210	Block 6	Unique
101-034-11	1/22/02	30	ND	ND	SE Corner Block 9	Unique
101-034-12	1/22/02	30	ND	ND	NE Corner Block 9	Unique
MTCA Cleanup			2000	2000		
Levels			2000	2000		

The current Washington State Department of Ecology Model Toxics Control Act cleanup level, as well as the United States Environmental Protection Agency (USEPA), is 2000 parts per million (ppm) for both diesel and heavy oils.

Because the analysis of the three composite samples collected from Blocks 1, 5 and 6 had elevated levels of heavy oils, WSI hand excavated pit at a depth 30 inches bgs near the center of Block 6 and collected an additional sample (101-034-10) from the bottom. During the excavation, WSI observed a layer of dark colored soil extending from the ground surface to a depth of approximately 12 inches. The soil at a depth of 12" to 30" bgs had no visible discoloration or detectable odor. According to Mike Sheppard of the USEPA the groundwater gradient at the site has been determined to flow in a southeasterly direction. Therefore WSI collected two samples from Block 9 located southeast of the remediation area in order to determine if landfarming the PCS may have resulted in hydrocarbons leaching downward into the groundwater. Sample 101-034-11 was collected at a depth of 30" bgs at the SW corner of Block 9, and Sample 101-034-12, at the NE corner.

According to the USDA Soil Conservation Service Soil Survey of the Yakima Indian Reservation Irrigated Area, dated January 1976, the soil is classified as an Ashue (AsA) gravelly sandy clay loam. The soil survey further says that no water table was evident at the depth of observation, normally 5 feet.

#### Conclusions

Based upon the fact that the soil analytical results indicate that the concentrations of both diesel and heavy oil on all of the samples collected at depths of 12" and 30" bgs are below the cleanup level of 2000 ppm., White Shield concludes that there is no additional action is necessary at the site. The soil analytical results indicate no PCS at the southeasterly corner of the area. White Shield further concludes that there as been no significant migration of the petroleum hydrocarbons the eleven-year duration of the project; therefore, the low levels of petroleum hydrocarbons present no threat to the environment. White Shield, therefore, concludes that no additional action is needed at the site. At the request of Mike Shepherd a copy of the 1991 report is attached as Appendix 3.

WSI appreciates the opportunity to provide you with environmental services. Please do not hesitate to contact us with any questions or concerns on this matter.

Sincerely,

White Shield, Inc.

Charles Robinson
Environmental Technician

William D. Gowey

Environmental Division Manager

cc: Yen-vy Van Hydrogeologist

### Attachments:

Figure 1 - Site Location Map

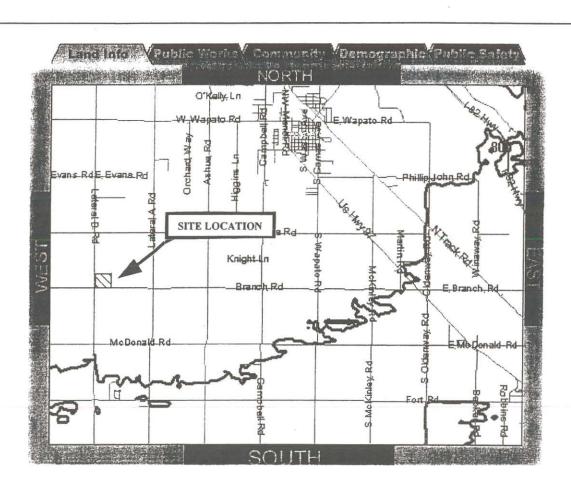
Figure 2 - Sampling Plan

Appendix 1 – 1992 Aerial Photo

Appendix 2 – Laboratory Analytical Results

Appendix 3 – Site Assessment Report for Underground Storage Tank Closure at Sanofi Bio-Industries Wapato, WA July 1991

# FIGURE 1 – Site Location Map 5661 Branch Road Wapato, Washington



Parcel Number: 19113033003

Situs Address: 5661 Branch Rd

Owner Name: Wapato Associates LLC

Misc Codes: 562-TCA/Levy

Assessed Values: 2131000-improvement value 143500-land

Parcel Size: 46.20 Acre(s)

Yakima County Zoning: AG - Agriculture

Plan 2015: Agricultural Resource

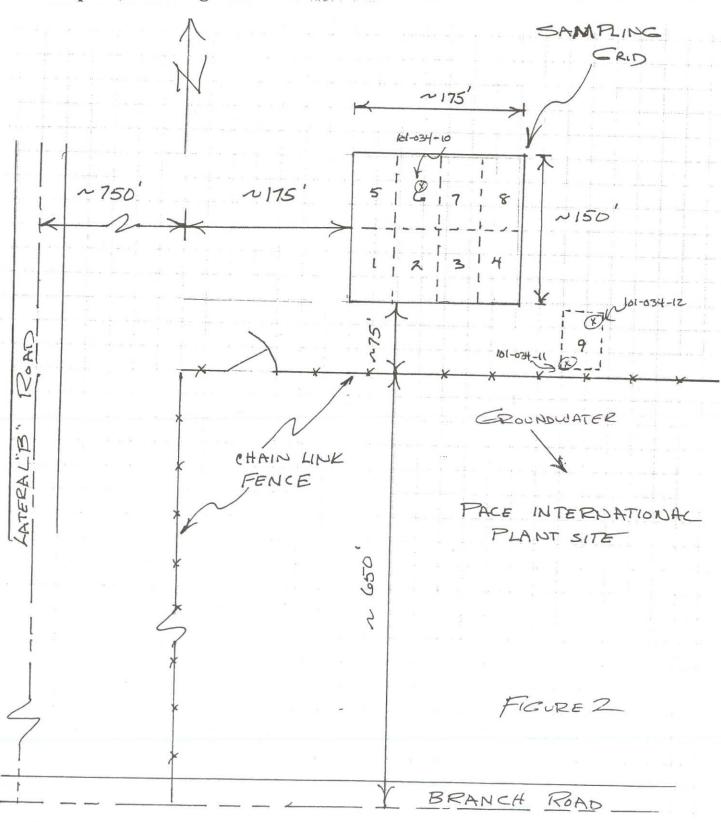
Urban Growth Area: Outside of Urban Growth Area

Jurisdiction: County

Floodplain: Not within floodplain.

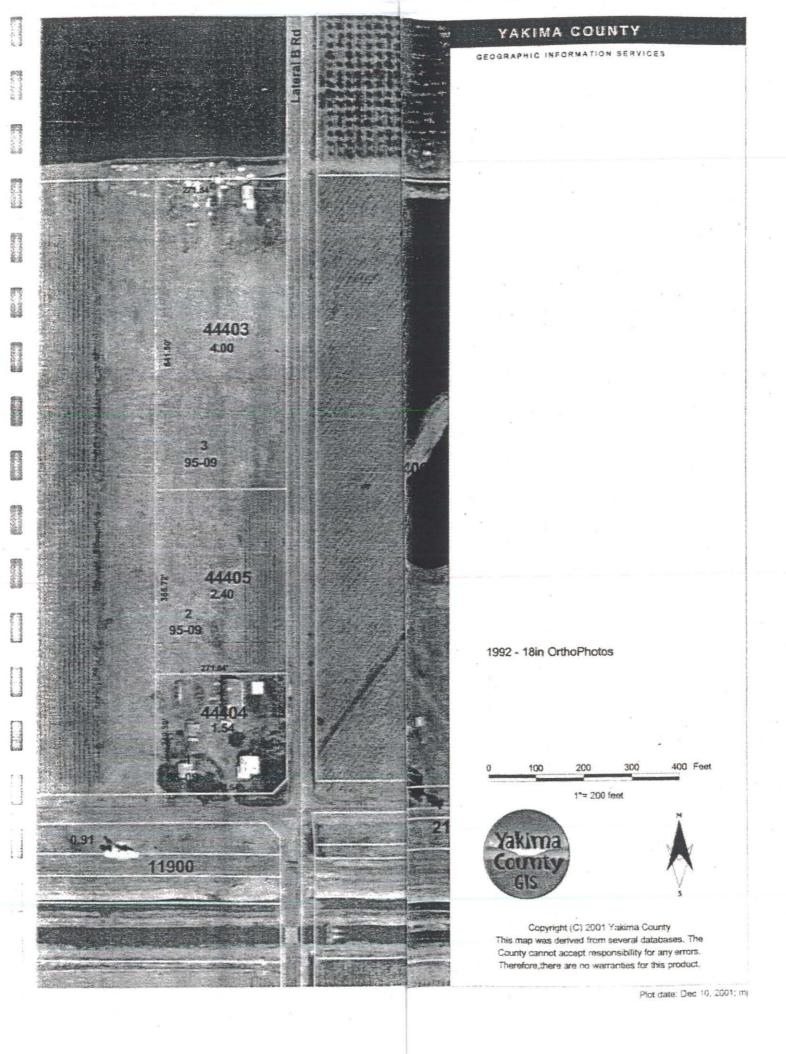
Critical Areas:

FIGURE 2 – Sampling Plan 5661 Branch Road Wapato, Washington



# **APPENDIX 1**

# 1992 AERIAL PHOTO



# **APPENDIX 2**

# LABORATORY ANALYTICAL RESULTS





JAN 15 2002 WHITE SHIELD, INC.

January 11, 2002

Bill Gowey White Shield, Inc. 2515 W. Falls Avenue Kennewick, WA 99336

Re:

Analytical Data for Project 101-034-01 Laboratory Reference No. 0201-038

Dear Bill:

Enclosed are the analytical results and associated quality control data for samples submitted on January 9, 2002.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Manager

**Enclosures** 

Lab Traveler: 01-038 Project: 101-034-01

#### NWTPH-Dx

Date Extracted:

1-9-02

Date Analyzed:

1-9-02

Matrix:

Soil

Units:

mg/Kg (ppm)

Client ID:

101-034-01

101-034-02

101-034-03

Lab ID:

01-038-01

01-038-02

01-038-03

Diesel Fuel:

ND

ND

ND

PQL:

39

30

30

Heavy Oil:

120

ND

ND

PQL:

78

60

61

Surrogate Recovery:

o-Terphenyl

86%

87%

92%

Lab Traveler: 01-038 Project: 101-034-01

#### NWTPH-Dx

Date Extracted:

1-9-02

Date Analyzed:

1-9&10-02

Matrix:

Soil

Units:

mg/Kg (ppm)

Client ID:

101-034-04

101-034-05

101-034-06

Lab ID:

01-038-04

01-038-05

01-038-06

Diesel Fuel:

ND

ND

ND

PQL:

30

38

34

Heavy Oil:

ND

590

610

PQL:

60

77

68

Surrogate Recovery:

o-Terphenyl

82%

92%

95%

Lab Traveler: 01-038 Project: 101-034-01

#### NWTPH-Dx

Date Extracted:

1-9-02

Date Analyzed:

1-9-02

Matrix:

Soil

Units:

mg/Kg (ppm)

Client ID: Lab ID:

101-034-07

101-034-08

101-034-09

01-038-07

01-038-08

01-038-09

Diesel Fuel:

ND

ND

ND

PQL:

30

30

30

Heavy Oil:

ND

ND

ND

PQL:

60

61

61

Surrogate Recovery:

o-Terphenyl

89%

83%

85%

Lab Traveler: 01-038 Project: 101-034-01

## NWTPH-Dx METHOD BLANK QUALITY CONTROL

Date Extracted:

1-9-02

Date Analyzed:

1-9-02

Matrix:

Soil

Units:

mg/Kg (ppm)

Lab ID:

MB0109S1

Diesel Fuel:

ND

PQL:

25

Heavy Oil:

ND

PQL:

50

Surrogate Recovery:

o-Terphenyl

118%

Lab Traveler: 01-038 Project: 101-034-01

### NWTPH-Dx DUPLICATE QUALITY CONTROL

Date Extracted:

1-9-02

Date Analyzed:

1-10-02

Matrix:

Soil

Units:

mg/Kg (ppm)

Lab ID:

01-038-06

01-038-06 DUP

Diesel Fuel:

ND

ND

PQL:

25

25

RPD:

N/A

Surrogate Recovery:

o-Terphenyl

95%

90%

Date of Report: January 11, 2002 Samples Submitted: January 9, 2002 Lab Traveler: 01-038 Project: 101-034-01

### % MOISTURE

Date Analyzed: 1-9-02

Client ID	Lab ID	% Moisture
101-034-01	01-038-01	36
101-034-02	01-038-02	16
101-034-03	01-038-03	18
101-034-04	01-038-04	16
101-034-05	01-038-05	35
101-034-06	01-038-06	27
101-034-07	01-038-07	16
101-034-08	01-038-08	18
101-034-09	01-038-09	18



#### DATA QUALIFIERS AND ABBREVIATIONS

- A Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- D Data from 1: \_\_\_\_ dilution.
- E The value reported exceeds the quantitation range, and is an estimate.
- F Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- G Insufficient sample quantity for duplicate analysis.
- H The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I Compound recovery is outside of the control limits.
- J The value reported was below the practical quantitation limit. The value is an estimate.
- K Sample duplicate RPD is outside control limits due to sample inhomogeniety. The sample was re-extracted and re-analyzed with similar results.
- L The RPD is outside of the control limits.
- M Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.
- O Hydrocarbons outside the defined gasoline range are present in the sample; NWTPH-Dx recommended.
- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a silica gel cleanup procedure.
- Y Sample extract treated with an acid cleanup procedure.

Z-

- ND Not Detected at PQL
- MRL Method Reporting Limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference

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1 101-034-01	1/8/02 1030	5 1		X						1145		•						$\top$			<u> </u>
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3 101-034-03	1/8/02 1055	5 1																		X	
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January 25, 2002

Bill Gowey White Shield, Inc. 2515 W. Falls Avenue Kennewick, WA 99336

Re:

Analytical Data for Project 101-034-01 Laboratory Reference No. 0201-125

#### Dear Bill:

Enclosed are the analytical results and associated quality control data for samples submitted on January 23, 2002.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Paumeister Project Manager

**Enclosures** 



FEB - 4 2002

WHITE SHIELD, INC.

Lab Traveler: 01-125 Project: 101-034-01

#### **NWTPH-Dx**

Date Extracted:

1-23-02

Date Analyzed:

1-23-02

Matrix:

Soil

Units:

mg/Kg (ppm)

Client ID:

101-034-10

101-034-11

101-034-12

Lab ID:

01-125-01

01-125-02

01-125-03

Diesel Fuel:

ND

ND

ND

PQL:

30

30

30

Heavy Oil:

210

ND

ND

PQL:

60

60

60

Surrogate Recovery:

o-Terphenyl

90%

85%

80%

Flags:

Z

Lab Traveler: 01-125 Project: 101-034-01

## NWTPH-Dx METHOD BLANK QUALITY CONTROL

Date Extracted:

1-23-02

Date Analyzed:

1-23-02

Matrix:

Soil

Units:

mg/Kg (ppm)

Lab ID:

MB0123S1

Diesel Fuel:

ND

PQL:

25

Heavy Oil:

ND

PQL:

50

Surrogate Recovery:

o-Terphenyl

81%

Lab Traveler: 01-125 Project: 101-034-01

## NWTPH-Dx DUPLICATE QUALITY CONTROL

Date Extracted:

1-23-02

Date Analyzed:

1-23-02

Matrix:

Soil

Units:

mg/Kg (ppm)

Lab ID:

01-128-01

01-128-01 DUP

Diesel Fuel:

ND

ND

PQL:

25

25

RPD:

N/A

Surrogate Recovery:

o-Terphenyl

89%

97%

Date of Report: January 25, 2002 Samples Submitted: January 23, 2002 Lab Traveler: 01-125 Project: 101-034-01

## % MOISTURE

Date Analyzed: 1-23-02

Client ID	Lab ID	% Moisture
101-034-10	01-125-01	16
101-034-11	01-125-02	17
101-034-12	01-125-03	17



#### DATA QUALIFIERS AND ABBREVIATIONS

- A Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- D Data from 1: \_\_\_\_ dilution.
- E The value reported exceeds the quantitation range, and is an estimate.
- F Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- G Insufficient sample quantity for duplicate analysis.
- H The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I Compound recovery is outside of the control limits.
- J The value reported was below the practical quantitation limit. The value is an estimate.
- K Sample duplicate RPD is outside control limits due to sample inhomogeniety. The sample was re-extracted and re-analyzed with similar results.
- L The RPD is outside of the control limits.
- M Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.
- O Hydrocarbons outside the defined gasoline range are present in the sample; NWTPH-Dx recommended.
- P The RPD of the detected concentrations between the two columns is greater than 40.
- Q Surrogate recovery is outside of the control limits.
- S Surrogate recovery data is not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical
- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- V Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X Sample extract treated with a silica gel cleanup procedure.
- Y Sample extract treated with an acid cleanup procedure.
- Z Acid-cleaning had no effect on the sample results.
- ND Not Detected at PQL
- MRL Method Reporting Limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference

# OnSite Environmental Inc

Chain of Custody

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# **APPENDIX 3**

SITE ASSESSMENT REPORT FOR UNDERGROUND STORAGE TANK CLOSURE AT SANOFI BIO-INDUSTRIES WAPATO, WA JULY 1991

## SITE ASSESSMENT REPORT FOR UNDERGROUND STORAGE TANK CLOSURE AT SANOFI BIO-INDUSTRIES WAPATO, WA

For:

Major Petroleum Service Co. 1675 W. 36th Avenue Kennewick, WA 99337

By:

David L. Green, R.S.A. Engineering Geologist

WHITE SHIELD, INC. P.O. Box 477 Grandview, WA 98930

June, 1991



# WHITE SHIELD, INC.

P.O. BOX 477 • GRANDVIEW, WA 98930 • (509) 882-1144 FAX (509) 882-4566



July 17, 1991

Major Petroleum Service Co. 1675 W. 36th Avenue Kennewick, WA 99337

Attention: Gilbert Jones

SUBJECT: SITE ASSESSMENT REPORT FOR CLOSURE OF UNDERGROUND

STORAGE TANKS AT SANOFI BIO-INDUSTRIES, WAPATO, WA.

Dear Mr. Jones,

Please find two copies of the site assessment report as required by the Washington State Department of Ecology. Based on the data and findings reported herein, we found soil contaminated by diesel and bunker 6 fuel. We also found bunker 6 oil floating atop the groundwater. Upon completion of remedial activities, we found no evidence of petroleum contamination exceeding DOE cleanup guidelines remaining at the site.

The DOE requires that you retain this report for a minimum of ten years. We recommend you retain it indefinitely. The DOE also requires us to submit a copy of the <u>Underground Storage Tank Site Check/Site Assessment Checklist</u> and a copy of <u>Notice of Permanent Closure of Underground Storage Tanks</u> to the Olympia office and it is attached to this report as Appendix D and E.

We appreciate the opportunity to provide you technical assistance for your tank closure. Please call me at (509) 882-1144 should you have any questions or comments.

Respectfully Yours,

WHITE SHIELD, INC.

David L. Green, R.S.A. Engineering Geologist

Project Number: MPS-0191

cc: lb

Sanofi Bio-Industries, Wapato, WA U.S. Environmental Protection Agency, Olympia, WA Department of Ecology, Olympia, WA

Department of Ecology, Central Regional Office

## **Executive Summary**

White Shield, Inc. (WSI) provided closure site assessment services upon removal of one 2,000 gallon diesel tank and one 10,000 bunker 6 fuel tank, located at the Sanofi Bio-Industries property Wapato, WA. We tested the soil for petroleum contamination as required by the <u>Guidance for Site Checks and Site Assessments for Underground Storage Tanks.</u> We conducted our initial investigation on June 14, 1991. Based on our visual observations, analytical laboratory analyses, olfactory responses (smell), and interviews, we found petroleum contamination exceeding DOE cleanup guidelines at the site. The soil under the diesel tank was contaminated with diesel and the soil adjacent to the bunker fuel was contaminated with bunker fuel. We also found bunker fuel contaminated soil adjacent to fuel lines. We encountered bunker fuel floating atop the groundwater under the bunker fuel tank.

Upon confirming that petroleum concentrations exceeded Action Levels for Petroleum Releases (Action Levels), we initiated cleanup at the site by excavating petroleum contaminated soil. We also used absorbent pads to remove bunker fuel from the surface of the groundwater.

Cleanup of petroleum contaminated soil and groundwater was verified by analytical laboratory results. We find no remaining petroleum contamination in the soil or groundwater which exceeds Action Levels.

The petroleum contaminated soil was transported to property owned by Sanofi Bio-Industries for treatment (landfarming).

## Sanofi Bio-Industries, Wapato, WA

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## 1.1 Purpose

This report describes findings and actions taken for work associated with the Underground Storage Tank removal(s). The work and investigation responds to regulatory requirements set forth by the United States Environmental Protection Agency (EPA) and the State of Washington, Department of Ecology (DOE).

## 1.2 Scope of Work

This report completes site assessment services, provided by White Shield, Inc. (WSI), for one 2,000 gallon diesel tank and one 10,000 gallon bunker 6 fuel tank on the Sanofi Bio-Industries property, Wapato, WA. Major Petroleum Service Co. provided the decommissioning services. Upon confirmation that petroleum concentrations exceeded Action Levels, we were retained to provide technical direction for PCS removal.

## 2.0 Background Information

## 2.1 Site Location

The site is located at 5661 Branch Road, Wapato, Washington. It is located within the NE 1/4 of the NW 1/4 of Section 31, Township 11 North, Range 19 East, Willamette Meridian.

## 2.2 Site Description and History

We understand that these tanks formerly supported refueling of railroad locomotives. Concrete floors and foundations are the only remains of railroad buildings at the site. The year of tank installation is not known. The tanks were removed on June 13, 1991.

## 2.3 Soils Description

Our inspection of the soil found poorly sorted Yakima River gravels up to 6 inches in diameter.

#### 3.0 Field Activities

## 3.1 General Investigative Methods

We visually inspected each tank, the soil and the fill. We also used field screening, analytical laboratory analyses, olfactory responses (smell), and interviews for data. The methods and general conclusions are discussed below.

## 3.2 Tank Inspection

We removed attached soil and scale to completely expose the tanks. With the soil and scale removed, we carefully examined each tank. The steel tanks exhibited moderate corrosion and pitting. We observed a small pin-hole at the base of the diesel tank.

## 3.3 Site Assessment

Dave Green, engineering geologist, and Rodney Heit, environmental technician performed the closure site assessment on June 14, 1991 after removal of the tanks. Both are registered with the Washington State Department of Ecology Underground Storage Tank Program. The attached Field Form for Site Assessment of Underground Storage Tanks (Field Form) provides a site map and other key data.

We observed visual signs of contamination in the soil and groundwater adjacent to the bunker 6 fuel tank and a portion of the fuel lines. We also observed slight diesel odors in the diesel tank excavation. We submitted 15 samples to Materials Testing and Consulting, Mt. Vernon, Washington, for laboratory analysis and found that petroleum hydrocarbon concentrations exceeded Action Levels in the area of the bunker fuel tank, a portion of the fuel lines and under the diesel tank. The sample locations are shown on the Field Form and the analysis results are shown in Appendix B. As required by the DOE, we have completed the Underground Storage Tank Site Check/Site Assessment Checklist and the "Notice of Permanent Closure of Underground Storage Tank(s) and submitted them to the Olympia office. These are presented in this report as Appendix D and E, respectively.

## 4.0 Investigative Methods and Results

## 4.1 Field Screening

For field analysis of compounds containing volatile organics, we used a Foxboro Organic Vapor Analyzer in conjunction with the interim headspace method as recommended by the manufacturer. This method is used to confirm the presence or absence of volatile components in the soil and provides only a rough indication of the contaminant concentrations. The analysis procedure involves:

- 1. Selecting a clean, wide mouth jar (1 qt.) and filling the bottom 1/3 with a discrete soil sample.
- 2. Place aluminum foil over the top of the jar and place a ring over the jar to create a seal.
- 3. Boil the sample for 10 minutes. This causes the volatile compounds to become vapors and collect in the space above the soil.
- 4. Remove the sample from the boiling water and insert the instrument probe through the aluminum foil for vapor analysis.
- 5. Record the instrument response on the Field Form.

For field analysis of semi-volatile (diesel) and non-volatile compounds (bunker fuel), we use Thin Layer Chromatography (TLC) for qualitative and quantitative analysis. This analytical technique utilizes the principle of chromatography to separate individual components for comparison to known standards.

TLC is classified as a solid-liquid chromatographic system, meaning there are two phases through which an extract of the sample is passed; a solid phase (silica gel) and a liquid phase (a solvent such as hexane).

The solid phase is stationary and is coated on a glass plate. During the chromatography process, the liquid phase carries the sample through the solid phase. The solvent moves at a fairly constant rate through the solid phase. However, the compound in the sample (analyte) are partitioned by a relative attractiveness of the analyte between the solid phase and the liquid phase. Analytes strongly attracted to the silica will remain on the silica longer and move more slowly than analytes that are not as strongly attracted to the silica. When the chromatography is stopped, the distance the analyte has moved relative

to the distance the solvent has moved is used to identify the compound. When the plate is viewed under ultraviolet light, the analytes can be seen and compared to standards of known concentration for quantitative analysis.

## 4.2 Soil Sampling

The Field Form (Appendix A) presents the location, quantity and types of samples taken. In general, sample collection and control followed the following protocol:

- 1. Select a laboratory certified clean sample jar for sample collection.
- 2. Using clean latex gloves and clean sampling utensils (tri-sodium phosphate, chlorine solution, tap water rinse and distilled water rinse cycle) tightly pack the soil sample in the sample jar (4 oz.) to the top of the jar to prevent any airspace.
- 3. Label the jar with the soil sample number, the type of laboratory test required, the date, name of site and sampler. The sample is then entered on the chain of custody form.
- 4. Cool the sample in wet ice to approximately 4 degrees centigrade.
- 5. Repack the samples for shipment to the laboratory in blue ice and a cooler.
- 6. Relinquish sample to courier for shipment to the laboratory.

## 4.3 Soil Chemistry

Laboratory analysis of soil samples collected from the floor of the diesel tank excavation found:

- diesel in concentrations up to 38.0 parts per million (ppm) and
- xylenes in concentrations up to 0.294 ppm.

Laboratory analysis of soil samples in the bunker fuel tank excavation found:

Total Recoverable Petroleum Hydrocarbons (TPH) in concentrations up to 21,463 ppm.

Laboratory analysis of soil samples collected under fuel lines found:

TPH in concentrations up to 2,090 ppm.

Results of the analyses are shown in Appendix B. Comparison of the analyses results with Action Levels for Petroleum Releases (Appendix C) cleanup guidelines indicates that no cleanup action is required.

## 4.4 Groundwater Sampling

Water sampling followed the same general protocol as the soil samples. The difference lies in filling the sample bottle. We filled the water bottle and placed the cap on the sample underwater to ensure the absence of air space.

#### 4.5 Groundwater Chemistry

Laboratory analysis of groundwater samples collected from under the diesel tank and the bunker fuel tank detected no petroleum hydrocarbons. Results of the analyses are shown in Appendix B. Comparison of the analyses results with the Action Levels (Appendix C) indicates that no additional cleanup action is required.

#### 5.0 Remedial Action

Upon confirmation that petroleum concentrations exceeded Action Levels (described above), we initiated cleanup of the soil and groundwater. Debbie Chulos, environmental technician, monitored the excavation process through use of Thin Layer Chromatography (TLC). Miss Chulos is registered with the Washington State Department of Ecology's Underground Storage Tank Program.

Mr. Jones used petroleum absorbent pads to remove bunker fuel that was floating on the surface of the groundwater in the bunker fuel tank excavation. As discussed above, laboratory analysis detected no dissolved petroleum products in the groundwater. PCS adjacent to fuel lines and from within the diesel tank excavation was also excavated. Mr. Jones excavated PCS from these locations until field analyses indicated that excavation of PCS was complete.

When field analysis indicated that excavation of Petroleum Contaminated Soil (PCS) was complete, we collected soil samples for laboratory analysis to confirm that petroleum concentrations do not exceed Action Levels. The analyses found no remaining petroleum contaminants exceeding action levels.

The excavated PCS was transported to a treatment site on the Sanofi Bio-Industries property. The client chose to "landfarm" the PCS to lower petroleum concentrations to acceptable levels. The treatment site is located approximately 600 feet North of Branch Road and 1000 feet West of Lateral B. It is located within the SW 1/4 of the SW 1/4 of Section 25, Township 11 North, Range 18 East, Willamette Meridian.

#### 6.0 Conclusion

Our investigation found petroleum contamination exceeding DOE cleanup guidelines at the site. We removed bunker fuel floating atop the groundwater and directed excavation of PCS. Laboratory analysis on samples collected after the cleanup process found no petroleum concentrations exceeding Action Levels.

Excavated PCS was transported to a site owned by Sanofi Bio-Industries for treatment.

#### 7.0 Recommendations

For treatment of the petroleum contaminated soil, we recommend following these guidelines:

- spread the soil to a maximum thickness of 3 inches,
- protect the soil from surface water runoff,
- ensure that depth to groundwater at the site is greater than 10 feet,
- restrict public access to the site,
- till the soil on a monthly basis.

Since the majority of petroleum contamination consists of bunker 6 fuel oil, the treatment process may be relatively slow. This is due to the non-volatile nature of the oil. To accelerate the treatment process, we recommend fertilizing the soil with manure. The manure should be tilled into the soil. The manure/soil ratio should not exceed 50:50. Manure is an excellent fertilizer for this purpose as it adds nutrients and micro-organisms for biologic metabolism of the petroleum.

#### 8.0 Limitations

In performing our professional services, we used a degree of care ordinarily exercised under similar circumstances by members of our profession. No warranty, expressed or implied, is made or intended. Our conclusions and recommendations, developed from our field and laboratory investigation reported herein, are based upon this firm's understanding of the tank removal project and are in concurrence with generally accepted practice.



Approximate scale: Not to Scale

# FIELD FORM FOR SITE ASSESSMENT OF UNDERGROUND STORAGE TANKS

Project name: Sanofi Bio Industries Project number: MP5-0191

Location: Branch Rd.    Size: 10,000 and Condition: Good signs of overling. Tank Contents: Size: Condition: Condition:   Tank Contents: Size: Condition: Good signs of overling. Size: Condition: Good signs of overling. Tank Contents: Size: Condition: Good signs of overling. Tank Contents: Size: Condition: Good signs of overling. Tank Contents: Size: Condition: Condition: Size: Condition: Conditio
Visual contamination: Fuel lines & Bunker tank excavation Screening method: FID ETLC
SITE SKETCH  (Show tank locations, lines, dispenser(s) and sample locations.  North Direction  BRANCH RD.  MPS-0191-1 \$ MPS-0191-25  MPS-0191-3)  MPS-0191-2 \$ MPS-0191-21 Bunker 6  MPS-0191-2 \$ MPS-0191-21 Bunker 6
MPS-0191-12  MPS-0191-12  MPS-0191-12  MPS-0191-12  MPS-0191-12  MPS-0191-13  MPS-0191-13  MPS-0191-16  MPS-0191-18  MPS-0191-19
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Samples descriptions are on reverse.
Depth to  Depth to  groundwater  I certify that the work performed and sampling methods used meet regulatory requirements as set forth by the U.S. Environmental Protection Agency and the Washington State Department of Ecology.

# ADDITIONAL SAMPLING

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Analysis: 8015 Depth: 9'	Analysis:Depth:
Headspace readingppm.	Headspace readingppm.
(4) North wall diesel tank after cleaning	° 0-
Analysis: 8015 Depth: 9'	Analysis:Depth:
Headspace readingppm.	Headspace readingppm.
(5) Gramd mater, diesel tank excavation	~ O
Analysis: 8015 Depth: 10	Analysis:Depth:
Headspace readingppm.	Headspace readingppm.
1 Fuel lines after deanup	O
Analysis: 4/4, / Depth: 3	Analysis: Depth:
Headspace readingppm.	Headspace readingppm.
1 Fuel lines after deanup	O
Analysis: 418./ Depth: 3	Analysis: Depth:
Headspace readingppm.	Headspace readingppm.
8 Fuel lines after cleanup	O
Analysis: 4/8-/ Depth: 3	Analysis: Depth:
Headspace readingppm.	Headspace readingprm.
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Analytical/Environmental Services

Materials Testing & Consulting, Inc

P.O. Box 309

W\$DOH Laboratory #46092090

Mount Vernon, WA 98273 (206)424-7560 - FAX (206)424-7550

Client: White Shield Inc.

P.O. Box 477

Grandview, WA 98930

Date: 7/16/91

Reference:

91-0268

Attn: Ms. Debble Chulos

Project: Sanofi Blo Ind

# **Data Report**

	Sample	ug/gm		ng/gm		
Lab Number	Description	TPH	Benzene	Toluene	Ethlybenzene	Xylenes
31-91-00783.05	Composite of MPS-0191-1 and 2	38-D	<10	<10	<10	294
31-91-00784.0\$	Composite of MPS-0191-3 and 4	<0.10	<10	< 10	<10	<10
31-91-00786.0W	MPS-0191-6	< 0.01	<1	<1	<1	<1
	6					
	* - Sample # 5 was broken upon receipt					
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	Methods:					
	BTEX/TPH \$W846 8020/8015mod.					
	G- Gasoline D-Diesel	Soll/Water	Boil/Water	Soil/Water	Soll/Water	Boll/Water
	Method Reporting Limit (MRL)	0.05/0.01	8/1	6/1	6/1	5/1
	Maximum Contamination Levels	100/1	500/5	20000/20	40000/40	20000/20

Sr. Environmental Chemist

Analytical/Environmental Services

Materials Testing & Consulting, Inc

WSDOH Laboratory #46092090

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Client: White Shield Inc.

P.O. Box 477

Grandview, WA 98930

Date: 7/15/91 Reference: 91-0268

Attn: Mr. Dave Green

Project: Sanofi Blo

# Data Report

	Sample	ug/gm		ng/gm	10.	
Lab Number	Description	TPH	Benzene	Toluene	Ethlybenzene	Xylenes
31-91-00786.0W	MPS-0191-6	<5				
31-91-00787.0\$	MPS-0191-7	6839	-	-	.	
31-91-00788.0\$	MPS-0191-8	71		*:	.	•
31-91-00789.0\$	MPS-0191-9	316		-		•
31-91-00790.0\$	MPS-0191-10	35			.	*
31-91-00791.08	MPS-0191-11	21463			.	
31-91-00792.0S	MPS-0191-12	53				
31-91-00793.0\$	MPS-0191-13	661	-			•
31-91-00794.0\$	MPS-0191-14	2090		-		•
31-91-00795.08	MPS-0191-15	13	-	. •		
	Methods:					
	TPH 418.1					
		Boll/Water	Soil/Water	Soll/Water	8oil/Water	Soll/Water
	Method Reporting Limit (MRL)	25/0.1	6/1	5/1	5/1	6/1
	Maximum Contamination Levels	290/1	500/5	20000/20	40000/40	20000/20

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L.J. Henderson, PhD

Lab Director

# Analytical/Environmental Services

# Materials Testing & Consulting, Inc.

P.O. Box 309

Mount Vernon, WA 98273

WSDOH Laboratory #46092090

(206)424-7560 - FAX (206)424-7550

31

Client: White Shield Inc.

P.O. Box 477

Grandview, WA 98930

Date:

7/15/91

Reference:

91-0269

Attn: Ms. Debble Chulos

Project: Sanofi Blo Ind.

# **Data Report**

	Sample	ug/gm		ng/gm		
Lab Number	Description	TPH	Benzene	Toluene	Ethlybenzene	Xylene
31-91-00796.0\$	MPS-0191-16	88			-	
31-91-00797.0S	MPS-0191-18	171				
31-91-00798.0\$	MPS-0191-19	<25				
31-91-00799.08	MPS-0191-20	157				
	100					
	Methods: EPA 418.1					
		Soll/Water	Soil/Water	Soll/Water	Boll/Water	Soli/Water
	Method Reporting Limit (MRL)	25/5.0	6/1	8/1	5/1	6/1
	Maximum Contamination Levels	200/1	800/5	20000/20	40000/40	20000/20

Lab Director

Analytical/Environmental Services

Materials Testing & Consulting, Inc.

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Mount Vernon, WA 98273

WSDOH Laboratory #46092090

(206)424-7560 - FAX (206)424-7550

12

Client: White Shield Inc.

P.O. Box 477

Attn: Mr. Dave Green

Grandview, WA 98930

Date: 6/26/91 Reference: 91-0228

Project: Sanofi Blo

Data Report

	Sample	ug/gm		ng/gm		
Lab Number	Description	TPH	Benzene	Toluene	Ethlybenzene	Xylenes
31-91-00696.OS	MPS-0191-21	<5	<25	<25	<25	<25
31-91-00697.OS	MPS-0191-22	<5	<25	<25	<25	<25
31-91-00698.OS	MPS-0191-23	<5	<25	<25	<25	<25
31-91-00699.OS	MPS-0191-24	<5	<25	<25	<25	<25
31-91-00700.OW	MPS-0191-25	< 0.1	<1	<1	<1	<1
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	Methods:					
	BTEX/TPH SW846 8020/8015mod.					
	G- Gasoline D-Dlesel	Soil/Water	Soll/Water	Soll/Water	Soll/Water	Soi!/Water
	Method Reporting Limit (MRL)	0.05/0.1	5/1	5/1	b/1	6/1
	Maximum Contamination Levels	100/1	b00/5	20000/20	40000/40	20000/20

Kurt W. Larsen

Sr. Environmental Chemist

## Analytical/Environmental Services

# Materials Testing & Consulting, Inc.

P.O. Box 309

Mount Vernon, WA 98273

WSDOH Laboratory #46092090

(206)424-7560 - FAX (206)424-7550

Client: White Shield Inc.

P.O. Box 477

Grandvlew, WA 98930

Date:

7/15/91

Reference:

91-0297

Attn: Ms. Debble Chulos

Project: Sanofi Blo Ind

# **Data Report**

	Sample	ug/gm		ng/gm		
Lab Number	Description	TPH	Benzene	Toluene	Ethlybenzene	Xylenes
31-91-00965.0\$	MPS-0191-26	89				
31-91 <b>-</b> 00966.0S	MPS-0191-27	30				
31-91-00967.08	MPS-0191-28	<25				
	Methods: EPA 418.1					
		Soll/Water	Boil/Water	Boll/Water	Soil/Water	Soll/Water
	Method Reporting Limit (MRL)	25/5.0	5/1	5/1	8/1	5/1
	Maximum Contamination Levels	200/1	500/5	20000/20	40000/40	20000/20

Larry J. Henderson by tradator

Lab Director

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## Action Levels for Petroleum Releases

Indicator Constituent	CAS <u>Number</u> <sup>1</sup>	Groundwater Action <u>Level</u>	Soil Action <u>Level</u>
Benzene	71-43-2	1 µg/L <sup>2,4</sup>	0.5 mg/kg <sup>3</sup>
Ethylbenzene	100-41-4	30 µg/L	20 mg/kg
Toluene	108-88-3	40 µg/L	40 mg/kg
Xylene	1330-20-7	20 µg/L	20 mg/kg
TPH (gasoline)		1,000 µg/L	100 mg/kg
TPH (other than gasoline)	74.	1,000 µg/L	200 mg/kg
Lead	7439-92-1	5.0 <b>µ</b> g/L	250 mg/kg

CAS number is the Chemical Abstracting Service number; "---" means no CAS number has been defined for these constituents.

 $<sup>\</sup>mu$ g/L can also be expressed as ppb. 2

<sup>3</sup> 

mg/kg can also be expressed as ppm.

Groundwater quality based criteria (Chapter 173-200 WAC).



# UNDERGROUND STORAGE TANK Site Check/Site Assessment Checklist

The purpose of this form is to certify the proper investigation of an UST site for the presence of a release. These activities shall be conducted in accordance with Chapter 173.360 WAC. A description of the various situations requiring a site check or site assessment is provided in the guidance document for UST site checks and site assessments.

This Site Check/Site Assessment Checklist shall be completed and signed by a person registered with the Department of Ecology to perform site assessments.

Two copies of the results of the site check or site assessment should be included with this checklist according to the reporting requirements in the guidance document for UST site checks and site assessments.

For further information about completing this form, please contact the Department of Ecology UST Program.

The completed checklist should be mailed to the following address:

Underground Storage Tank Section Department of Ecology Mail Stop PV-11 Olympia, WA 98504-8711

1. UST SYSTEM OW	NER AND LOCATION			
JST Owner/Operator:	SANOFI BIO-I	NDUSTRIES		
Owners Address:	5661 BRANCH	RD	P.O. Box	
	WAPATO	WA	98951 ZIP-Code	
relephone:	(509) 877-Gill	State	Zir-Cods	
,,				59 <b>4</b> 5
Site ID Number (on invo	ice or available from Ecology if tank is	s registered): <u>not</u> re	aistered	
Site/Business Name:	SAMIE AS AL	BOVE	-	1
Site Address:				
	Street		County	
I	Street	State	County ZIP-Code	
2 SITE CHECK/SIT	• •	of Marin and American		
2. SITE CHECK/SIT	City	of Marin and American		
1	City  PASSESSMENT CONDUCTED  PROBLEM AND THE CHARLES AND THE CONDUCTED CONDU	of Marin and American	ZP-Code	
Registered Person:	Chy  EASSESSMENT CONDUCTED  Debie Chilos  246 Oivision  Street	BY:	PO BOX 477 P.O. Box 98930	
Registered Person:	City  PASSESSMENT CONDUCTED  PROBLEM AND THE CHARLES AND THE CONDUCTED CONDU	BY:	Po Box 477 P.O. Box	

3. TANK INFORMATION			
1. Tank ID Number (as registered with Ecology): not registered 2. Year installed:	inkrown		
3. Tank capacity in gallons: 2000 4. Last substance stor	ed: diesel		_
4. REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT			
TENESTITION CONDUCTING SITE CHECK/SITE ASSESSMENT CONTROL OF THE PROPERTY OF T		<b>注创了针面的基础证券</b>	
Check one:			
Investigate suspected release due to on-site environmental contamination			
Investigate suspected release due to off-site environmental contamination		(4)	
Extend temporary closure of UST system for more than 12 months	ä		
UST system undergoing change-in-service			
UST system permanently closed-in-place	2 - 1		
UST system permanently closed with tank removed			
Required by Ecology or delegated agency for UST system closed before December	22, 1988		
Other (describe):			
	•	3.7	7:
5. CHECKLIST			
Each item of the following checklist shall be initialed by the person registered with the De	epartment of Ecol	ogy who	se
signature appears below.			
		Yes	No
1. Has the site check/site assessment been conducted according to applicable procedures specifi			
site chark/site assessment evidence according to applicable procedures specific	ied in the UST	.	
site check/site assessment guidance issued by the Department of Ecology?	ied in the UST		* * * * * * * * * * * * * * * * * * * *
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page 2



# UNDERGROUND STORAGE TANK Site Check/Site Assessment Checklist

The purpose of this form is to certify the proper investigation of an UST site for the presence of a release. These activities shall be conducted in accordance with Chapter 173.360 WAC. A description of the various situations requiring a site check or site assessment is provided in the guidance document for UST site checks and site assessments.

This Site Check/Site Assessment Checklist shall be completed and signed by a person registered with the Department of Ecology to perform site assessments.

Two copies of the results of the site check or site assessment should be included with this checklist according to the reporting requirements in the guidance document for UST site checks and site assessments.

For further information about completing this form, please contact the Department of Ecology UST Program.

The completed checklist should be mailed to the following address:

Underground Storage Tank Section Department of Ecology Mail Stop PV-11 Olympia, WA 98504-8711

1. UST SYSTEM OW	NER AND LOCATION		
UST Owner/Operator:	SANOFI BIO	-INDUSTRIES	
Owners Address:	5661 BRANCH	RD	- 1 - 1
* 1	WAPAT O	₩ A State	P.O. Box 9895)
Telephone:	(509) 877-6111		ZIP-Code
Total Total			
Site ID Number (on invo	ice or available from Ecology if tank is	registered): not regis	tered
Site/Business Name:	SAME AS ABL	UVE	The state of the s
Site Address:	*		
	Street		County
	City	State	ZIP-Code
2. SITE CHECK/SIT	EASSESSMENT CONDUCTED B	Yes a second of the second	
Registered Person:	Debbie Chulos		
Address:	246 Division	Po	Box 477
		Washington	P.O. Box 93930
Telephone:	(509) 882-1144	State	ZIP-Code
			* * * *

# APPENDIX D

1. Tank ID Number (as registered with Ecology): not registered 2. Year installed: unknow	N.	-
3. Tank capacity in gallons:	#6·	
	SNB T T	
REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT		
Check one:		
officer office.		
Investigate suspected release due to on-site environmental contamination		Į.
Investigate suspected release due to off-site environmental contamination	5	
Extend temporary closure of UST system for more than 12 months		
UST system undergoing change-in-service		
UST system permanently closed-in-place		
UST system permanently closed with tank removed		
Required by Ecology or delegated agency for UST system closed before December 22, 1988		
Other (describe):		
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CHECKLIST	war in the later of	- Charles
Each item of the following checklist shall be initialed by the person registered with the Department of Ecc signature appears below.		
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signature appears below.  Has the site check/site assessment been conducted according to applicable procedures specified in the UST		• • •
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signature appears below.  Has the site check/site assessment been conducted according to applicable procedures specified in the UST site check/site assessment guidance issued by the Department of Ecology?	Yes	• • •
Has the site check/site assessment been conducted according to applicable procedures specified in the UST site check/site assessment guidance issued by the Department of Ecology?  Has a release from the UST system been confirmed?	Yes	• • •
signature appears below.  Has the site check/site assessment been conducted according to applicable procedures specified in the UST site check/site assessment guidance issued by the Department of Ecology?	Yes	• • •
Has the site check/site assessment been conducted according to applicable procedures specified in the UST site check/site assessment guidance issued by the Department of Ecology?  Has a release from the UST system been confirmed?  NOTE: Owners/operators must report all confirmed releases to the Department of Ecology or delegated agency within 24 hours.  Are the results of the site check/site assessment enclosed with this checklist?	Yes	• • •
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Has the site check/site assessment been conducted according to applicable procedures specified in the UST site check/site assessment guidance issued by the Department of Ecology?  Has a release from the UST system been confirmed?  NOTE: Owners/operators must report all confirmed releases to the Department of Ecology or delegated agency within 24 hours.  Are the results of the site check/site assessment enclosed with this checklist?  NOTE: Two copies of the site check/site assessment results must be submitted to the Department of Ecology according to the reporting requirements specified in the UST site check/site assessment guidance.  I hereby certify that I have been in responsible charge of performing the site check/site assessment described all	Yes OC OC	•
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Has the site check/site assessment been conducted according to applicable procedures specified in the UST site check/site assessment guidance issued by the Department of Ecology?  Has a release from the UST system been confirmed?  NOTE: Owners/operators must report all confirmed releases to the Department of Ecology or delegated agency within 24 hours.  Are the results of the site check/site assessment enclosed with this checklist?  NOTE: Two copies of the site check/site assessment results must be submitted to the Department of Ecology according to the reporting requirements specified in the UST site check/site assessment guidance.  I hereby certify that I have been in responsible charge of performing the site check/site assessment described all Persons submitting false information are subject to penalties under Chapter 173.360 WAC.	Yes OC OC	No

ECY 010-158 (12/90)

#### APPENDIX E

## NOTICE OF FERMANENT CLOSURE OF UNDERGROUND STORAGE TANK(S)

Site Owner/Operator: Sanofi Bio-Industries
Site Address: 5661 Branch Rd.
Telephone: (509) 877-6/11
Site Notification Number (If known; this is assigned by Ecology): Tank has been registered with Ecology (); tank was not registered ( $\underline{X}$ ).
Local closure permit (if any) obtained from: None  (Always contact local authorities regarding permit requirements.)
Tank closure performed by:  Company/Individual: Major Petrolenm Service Co. Gilbert Jones  Telephone: (509) 586-1867 Date of Tank Closure: June 13, 1991  Method of Closure: (X) Removal () In-Place Closure  If closed in place, type of fill material used:
If removed, how will the tank(s) be disposed of? ()Scrap ()Landfill (\forall )Other method (please specify:unknown Disposal Location:
Tank(s) Closed
Tank ID Number  Age Size  Z,000 aal  Z,000 gal  Rnnker 6
Will the tanks be replaced by new underground tanks? ()Yes (X_)No (NOTE: If YES, you need to submit a notification form for the new tanks.)
Was a site assessment completed? $(X)$ Yes $(Y)$ No If so, was contamination found? $(X)$ Yes $(Y)$ No
(NOTE: The appropriate regional office of the Washington Department of Ecology should be contacted for assistance if contamination is found (see attached map). Records of the site closure must also be maintained at the site and must be available upon an inspector's request for at least three years after closure.)
Inspecting Agency: None Inspector Name: None
(NOTE: This is generally the local fire department or agency enforcing the Uniform Fire Code; in some cases (usually involving contamination) it may be Ecology. In some instances there may be no inspecting agency.)
Signature: Date: July 18, 1911
Signature: Ward Irelin Date: July 18, 1911  Title: Engineering Geologist
Please return the completed form to:

Storage Tank Unit Department of Ecology M/S PV-11 Olympia, WA 98504-8711